



ABSTRACT

Safety door system comprises of door edge and doorframe mount conductive material, which is connected to an electronic control circuitry equipped with an audio or visual warning alarm devise. The system is designed during door closure to detect human body limb (Fingers, hands) touching the door edge or door inner frame, and alert the person tempting to close the door, to the presence of human body limb between the door and doorframe, by an audio or visual alarm signal.

During a door closure, if a human body limb touches the door edge or door inner frame mount conductive material. The electronic control circuitry detects the presence of human body touch, and transmits an audio or visual warning alarm, to avoid the users or other person(s) hand or finger(s) getting caught in between door and doorframe.

In a preferred embodiment, the safety door system additionally is equipped with an electromechanical doorstopper, which is connected to an electronic control circuitry. During a door closure, when a person touches the door mount conductive material, the electronic circuitry upon detecting human body touch detection signal, the electronic circuitry transmits a signal into electromechanical door stopper to stop the door from closing.